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I:ontaneous inflammatory demyelinating disease in
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                                                               Probert L: Akassoglou F., Pasparakis M: Kontogeorges G:
 AUTHOR:
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HOGEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE THITTED STATES OF AMERICA, (1995 Nov 21) 92 (24) 11294-9. Acumal code: PV3. 7505876. ISSN: 0027-8424.
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Cytokines are now recognized to play important roles in the physiology of the central nervous system (CNS) during health and disease. Tumor necrosis factor alpha (TMF-alpha) has been implicated in the pathogenesis of several human CMS disorders including multiple sclerosis, AIDS dementia, and carebral malaria. We have generated transgenic mice that constitutively express a murine TMF-alpha transgene, under the control of its own promiter, specifically in their CNS and that spontaneously develop a chronic inflammatory demyelinating disease with 1000 penetrance from around 3-8 weeks of age. High-level expression of the transgene was seen in neurons distributed throughout the brain. Disease is manifested by ataxia, seizures, and paresis and leads to early death. Histopathological analysis revealed infilitration of the meninges and CNS parenchyma by CD4 and CD8+ T lymphicytes, wisespread reactive astrocytosis and microgliosis, and focal demyelination. The direct action of TMF-alpha in the pathogenesis of this disease was confirmed by peripheral administration of a neutralizing anti-murine TMF-alpha in the development of neurological symptoms, T-cell infilitration into the CNS parenchyma, astrocytosis, and demyelination, and greatly reduced the severity of reactive microgliosis. These results demonstrate that overexpression of TMF-alpha in the TMS can cause abnormalities in nervous system structure and function. The fisease induced in TMF-alpha transgenic mice shows crimical and histopathological features characteristic of inflammatory demyelinating CNS disorders in humans, and these mice represent a relevant in vivo model for their further study.

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